

Colorado Table Value Standards, 5 CCR 1002 Regulation 31

Hardness = 247 milligrams per liter

Parameter	Aquatic Life				Domestic Water	
	Acute	Acute (tr)	Chronic	Chronic (tr)	Agriculture	Supply
pH		6.5 to 9			NS	
Aluminum	11801	NS	1685	NS	NS	NS
Antimony	NS	NS	NS	NS	NS	6
Arsenic	340	NS	150	NS	NS	0.2 - 10
Barium	NS	NS	NS	NS	NS	1000
Beryllium	NS	NS	NS	NS	100	4
Cadmium	6.0	3.74	0.84	NS	10	5
Chromium III	1195	NS	155	NS	100	50
Chromium VI	16	NS	11	NS	100	50
Copper	31.5	NS	19.4	NS	200	1000
Iron	NS	NS	1000	NS	NS	300
Lead	170	NS	6.6	NS	100	50
Manganese	4035	NS	2229	NS	200	50
Mercury	NS	NS	0.01	NS	NS	2
Molybdenum	NS	NS	NS	NS	300	210
Nickel	1006	NS	112	NS	200	100
Selenium	18.4	NS	4.6	NS	20	50
Silver	9.61	NS	1.52	0.36	NS	100
Thallium	NS	NS	NS	NS	NS	0.5
Uranium	6507	NS	4065	NS	NS	16.8 - 30
Zinc	364	NS	276	817	2000	5000

Notes: Aquatic life standards are for dissolved metals except aluminum (total recoverable), iron (total recoverable), and mercury. Agriculture and domestic use standards are total recoverable except iron (dissolved).

The following link goes to the Colorado Water Quality Control Division Regulations

<https://www.colorado.gov/pacific/cdphe/water-quality-control-commission-regulations>

The standards shown above are table value standards (TVS) cited in Regulation 31 that are the standards for many but not all streams. You must look up the standards that apply to the stream segment in question. These are found in the tables associated with the various stream classifications. The standards are based on stream classifications and, in some cases, existing water quality (and a whole lot of other things).

Insert the hardness of your water/sample (milligrams per liter) in the yellow highlighted cell. The spreadsheet will calculate the hardnesses. Hardnesses are in mg/L as calcium carbonate and shall be no greater than 400 mg/L (220 mg/L for aluminum).

Hardness values are for the sample in question. A regression formula is used to calculate the hardness value used to calculate percent hardness. There are MANY notes associated with the standards. Refer to Regulation 31 Table 3 Footnotes (page 58) and notes in each regulation. These are just the metals WQS. Organic, radiation, physical, and other inorganic parameters are also regulated.

The agriculture, domestic water supply (WS) standards are typically based on 30 day averages, but some are 1 day averages. Look

Water + Fish	Fish Ingestion	Fraction
NS	NS	Total Recoverable
5.6	640	Dissolved
0.02	7.6	Dissolved
NS	NS	Dissolved
NS	NS	Dissolved
NS	NS	Dissolved
NS	NS	Dissolved
100	NS	Dissolved
1300	NS	Dissolved
NS	NS	Total Recoverable
NS	NS	Dissolved
NS	NS	Dissolved
NS	NS	Total
NS	NS	Dissolved
610	4600	Dissolved
170	4200	Dissolved
NS	NS	Dissolved
0.24	0.47	Dissolved
NS	NS	Dissolved
7400	26000	Dissolved

y (total final residue value)

eam segments.

arious basins (Regulations 32 to 38)

hardness-based standards based on this number.

rmit effluent limits (see Regulation 31).

ulation.

ok in the regulation for these.

